

Fig. 1

# XTEM of PHEMT 2.3 Structure

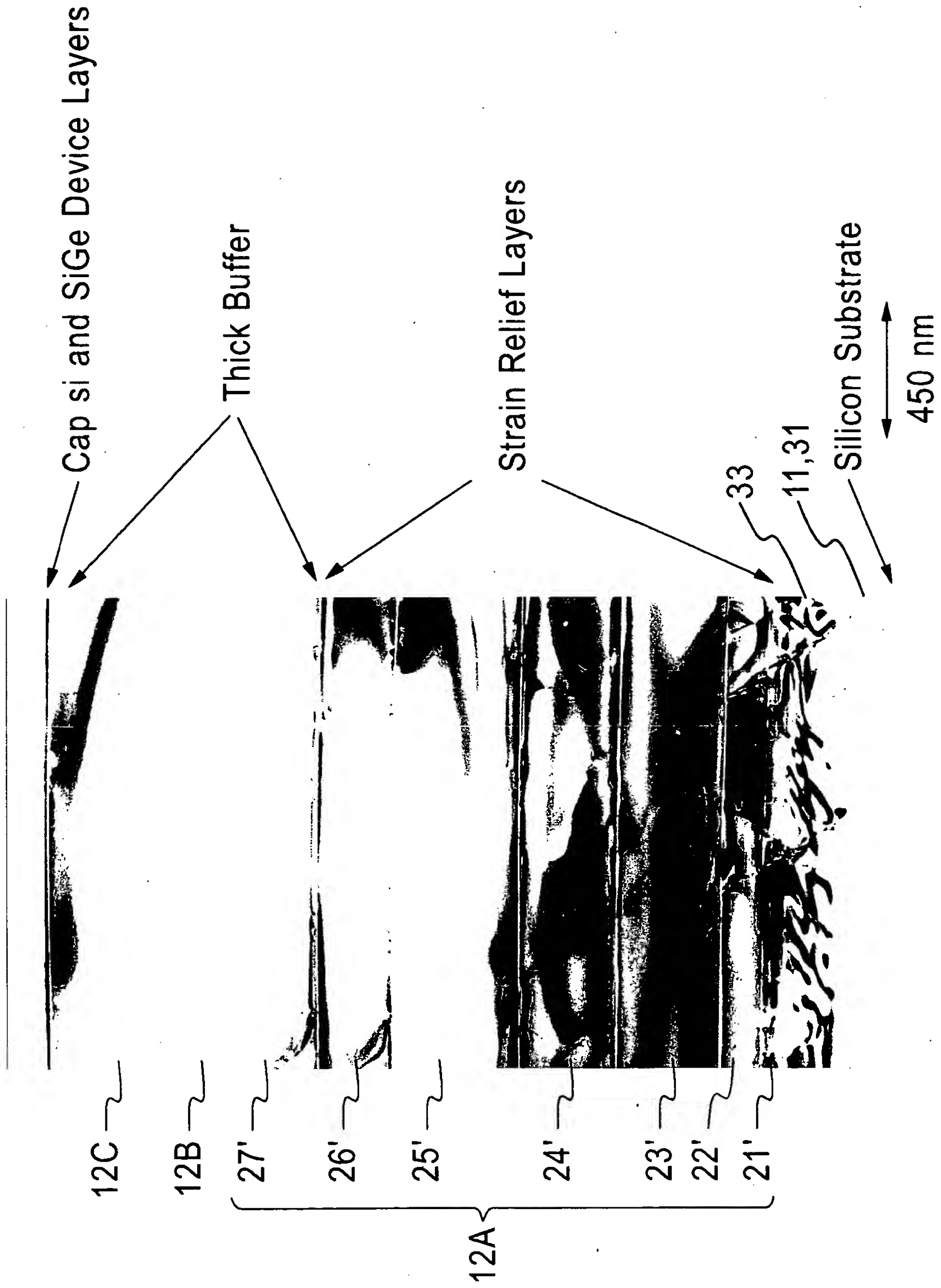


Fig. 2

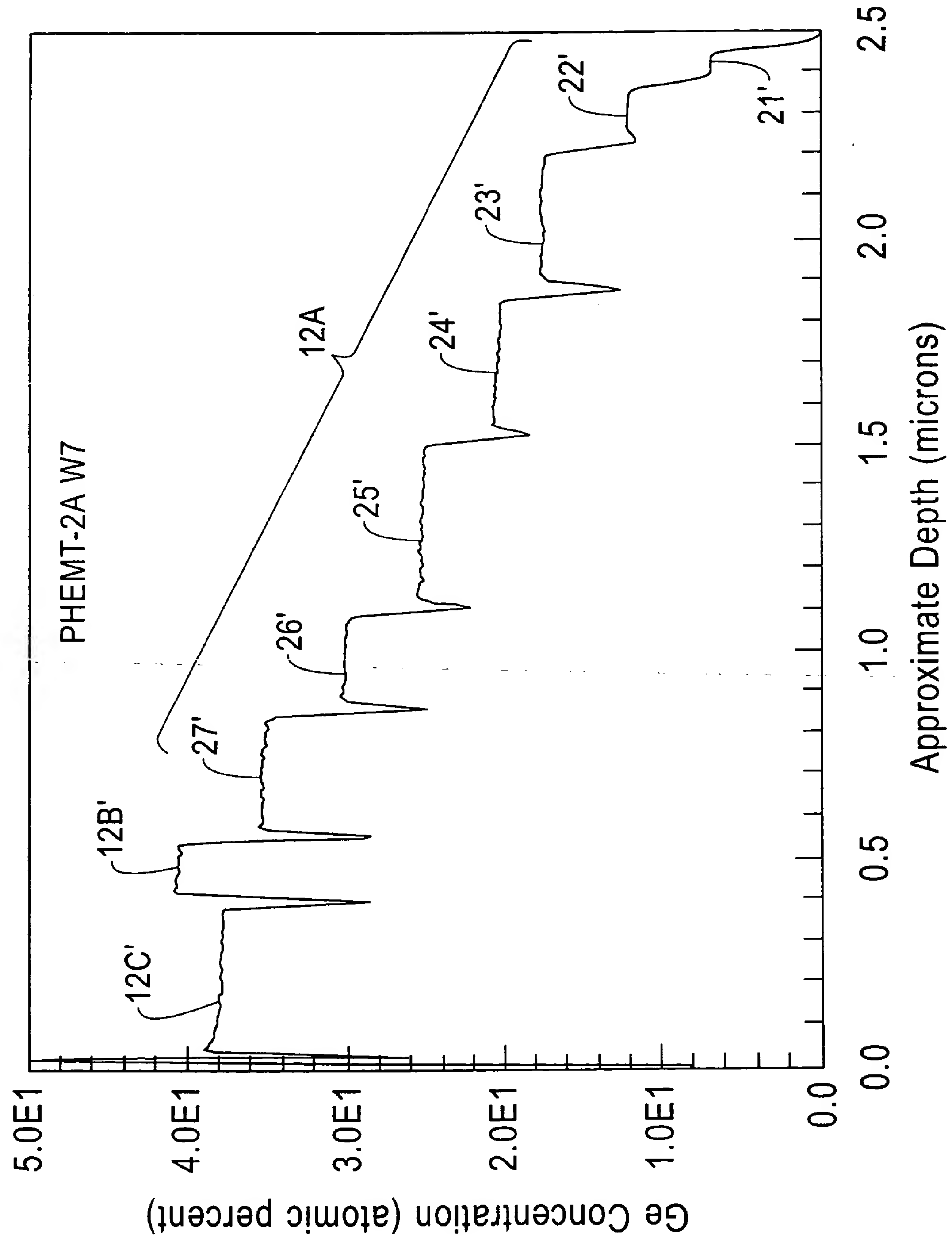
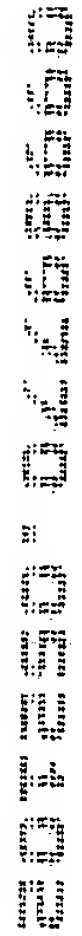
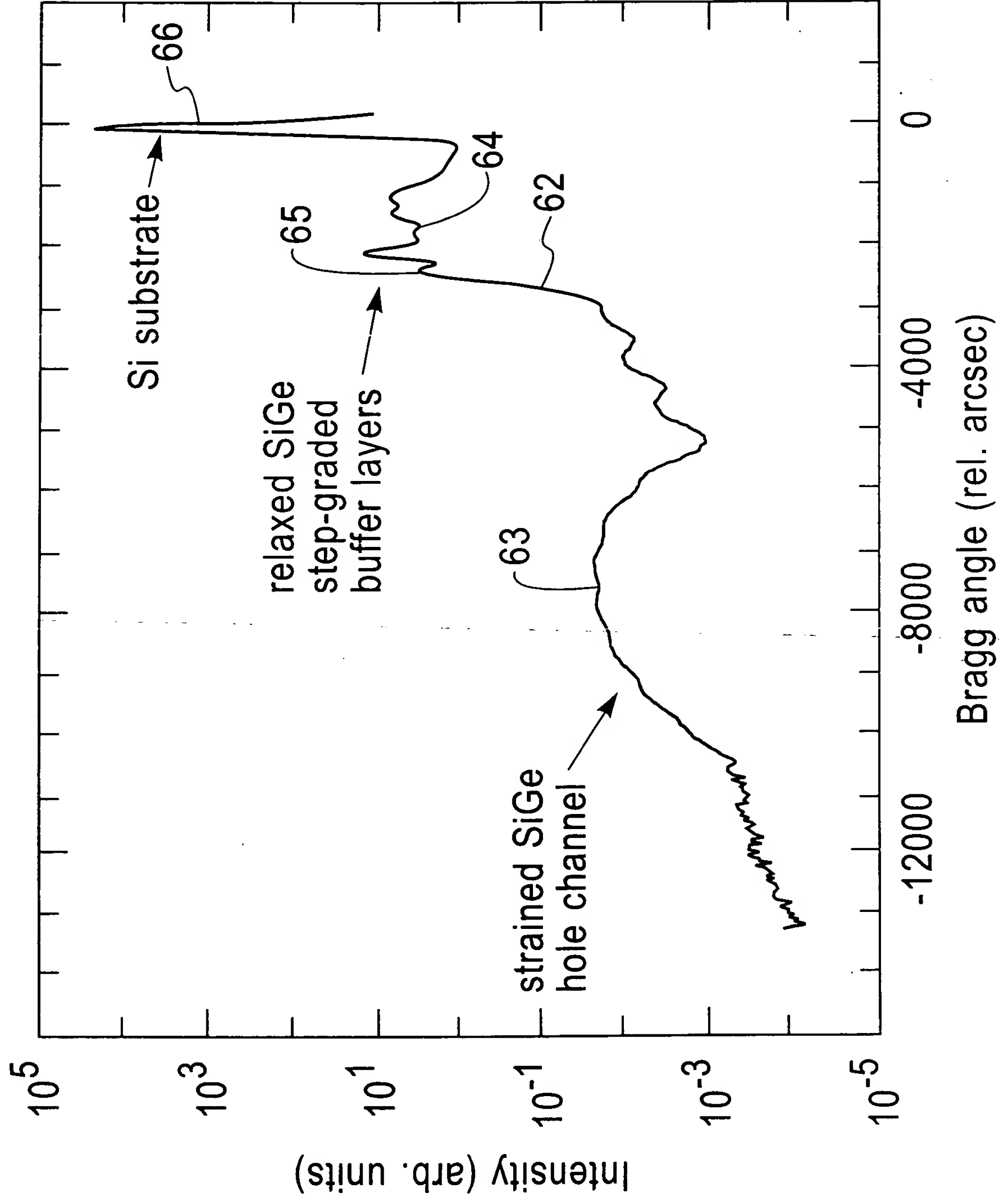


Fig. 3



**Fig. 4**



**Fig. 5**

XTEM of PHEMT 2.3 Device

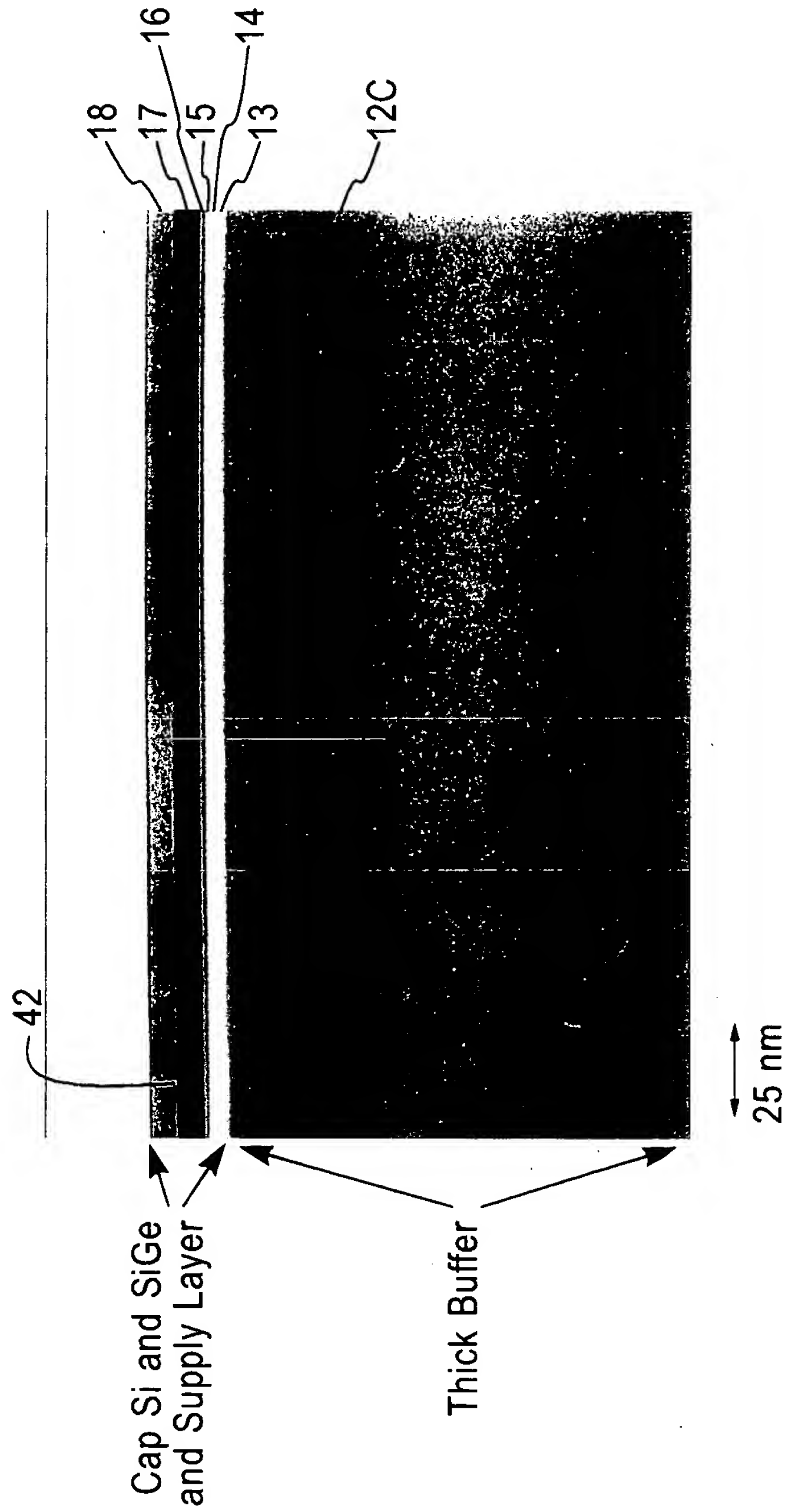
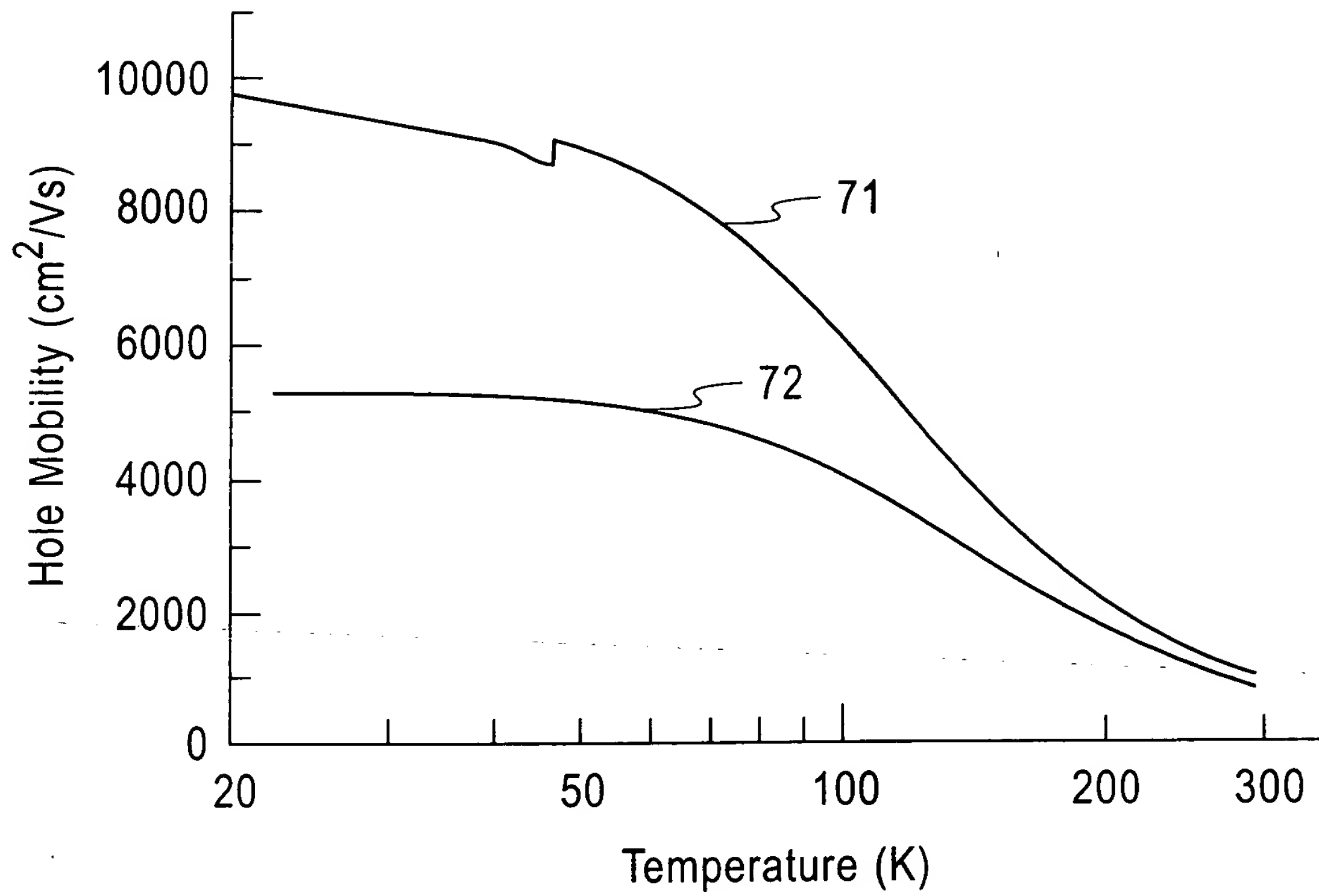


Fig. 6

Stacking fault densities  
 $\sim 10^6 - 10^8/\text{cm}^2$



Fig. 7



**Fig. 8**



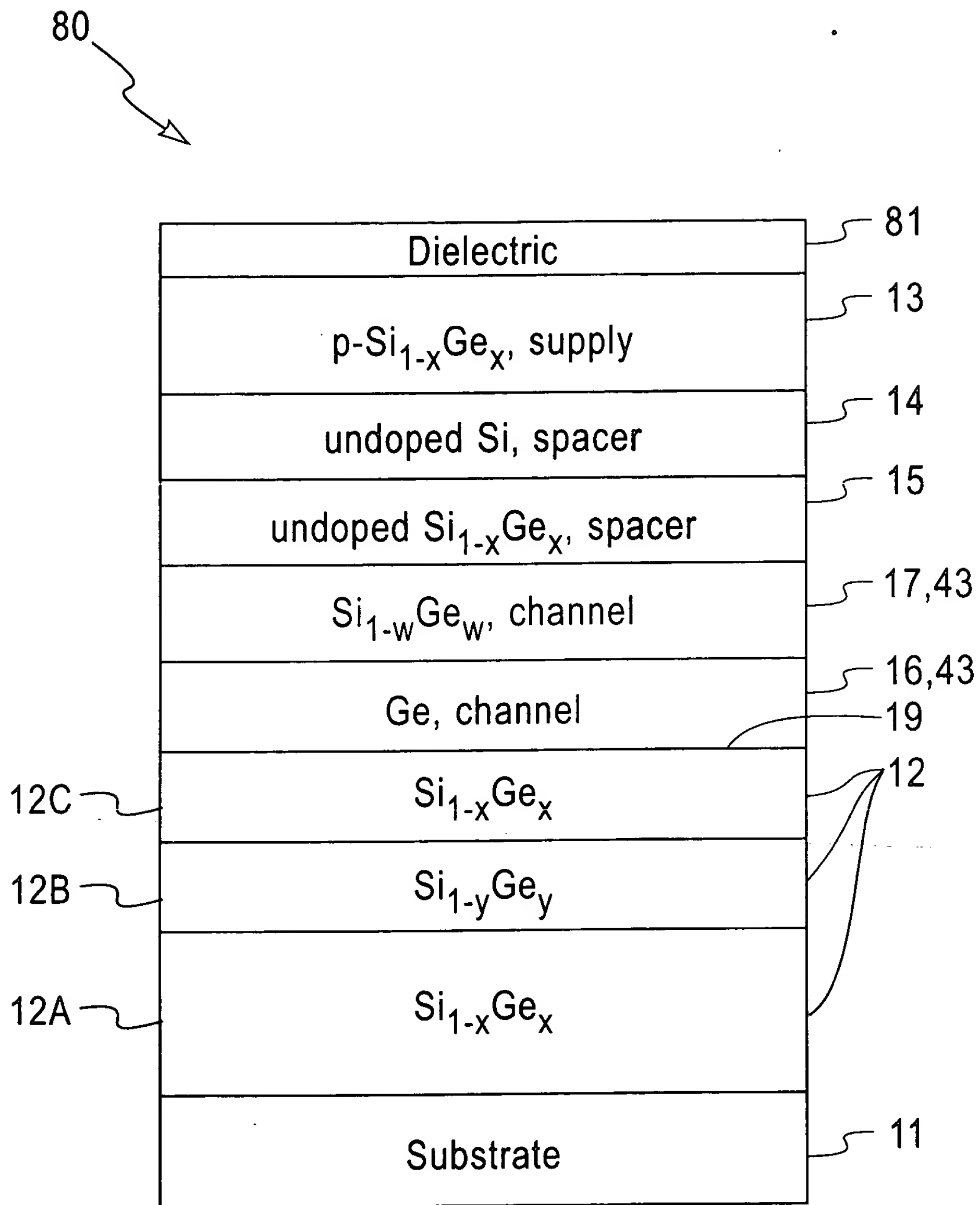


Fig. 9

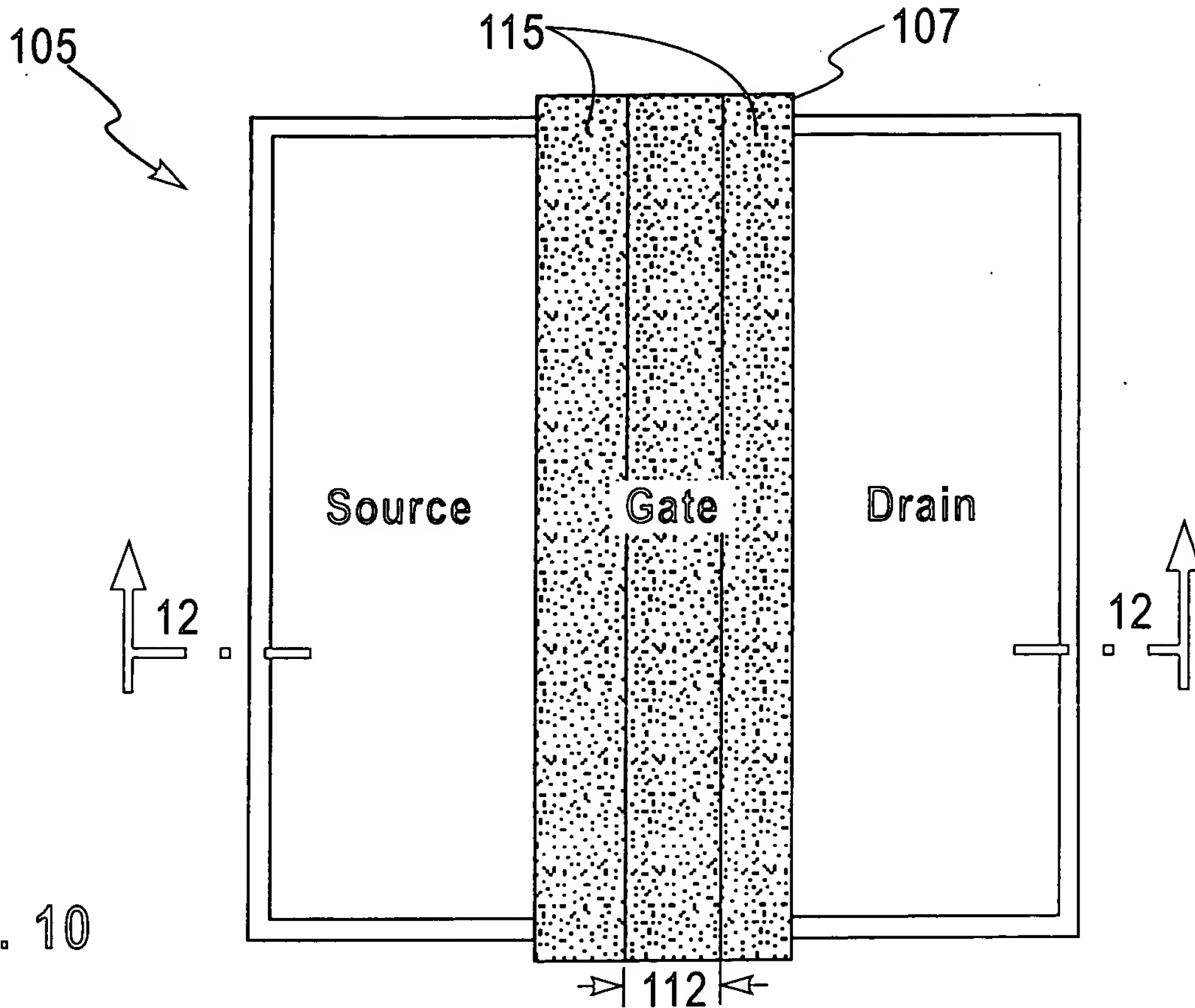


Fig. 10

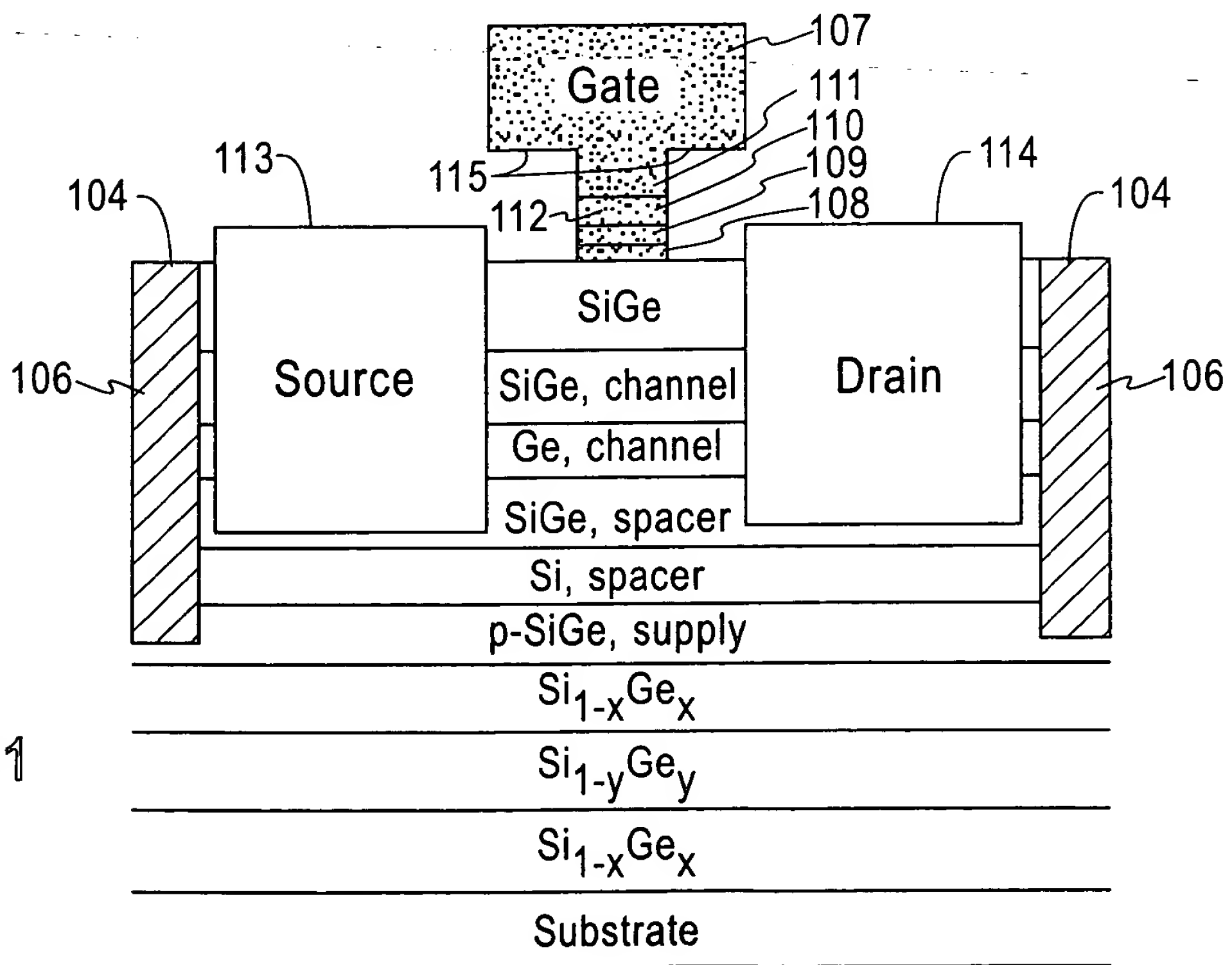


Fig. 11

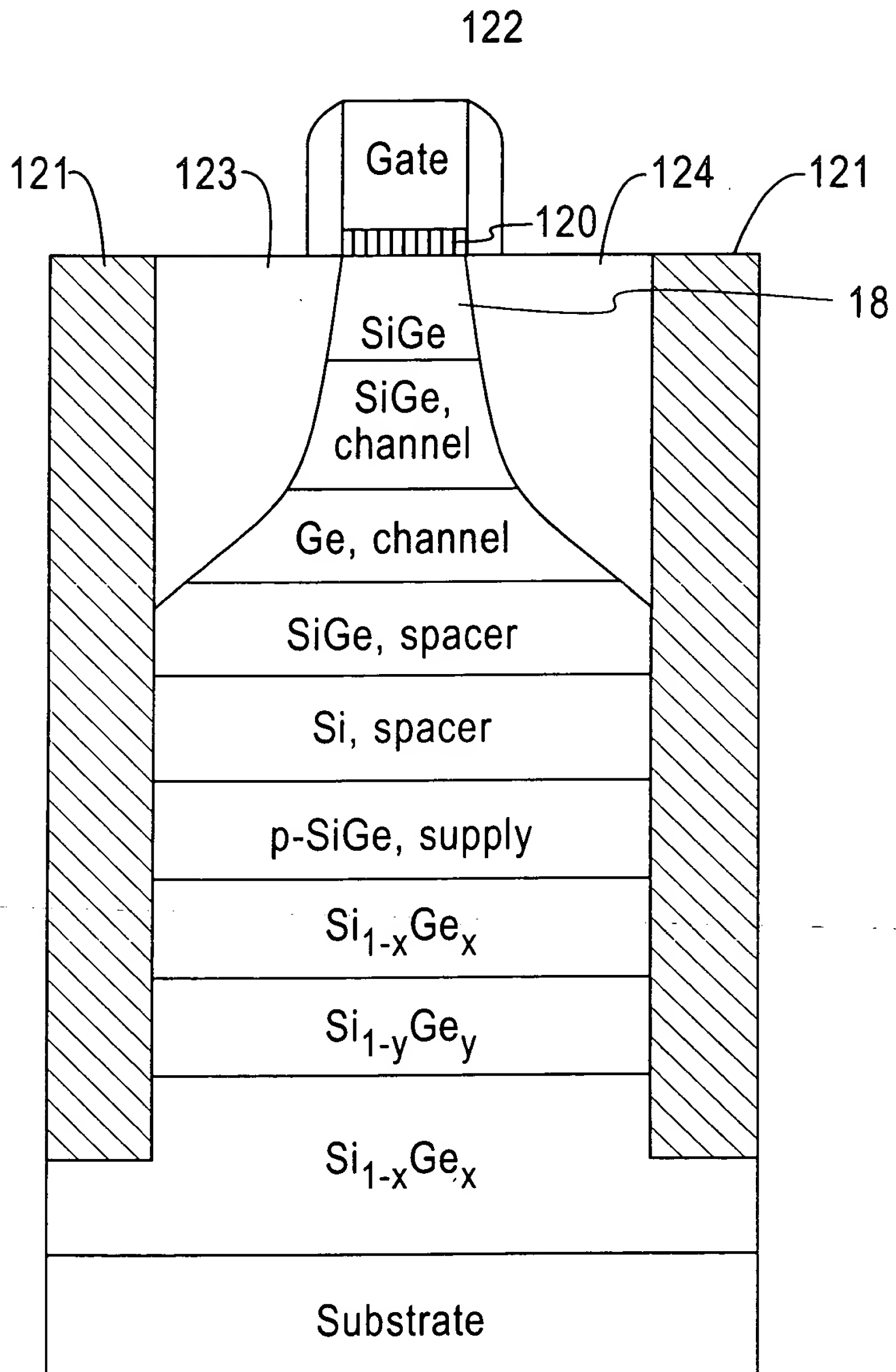


Fig. 12

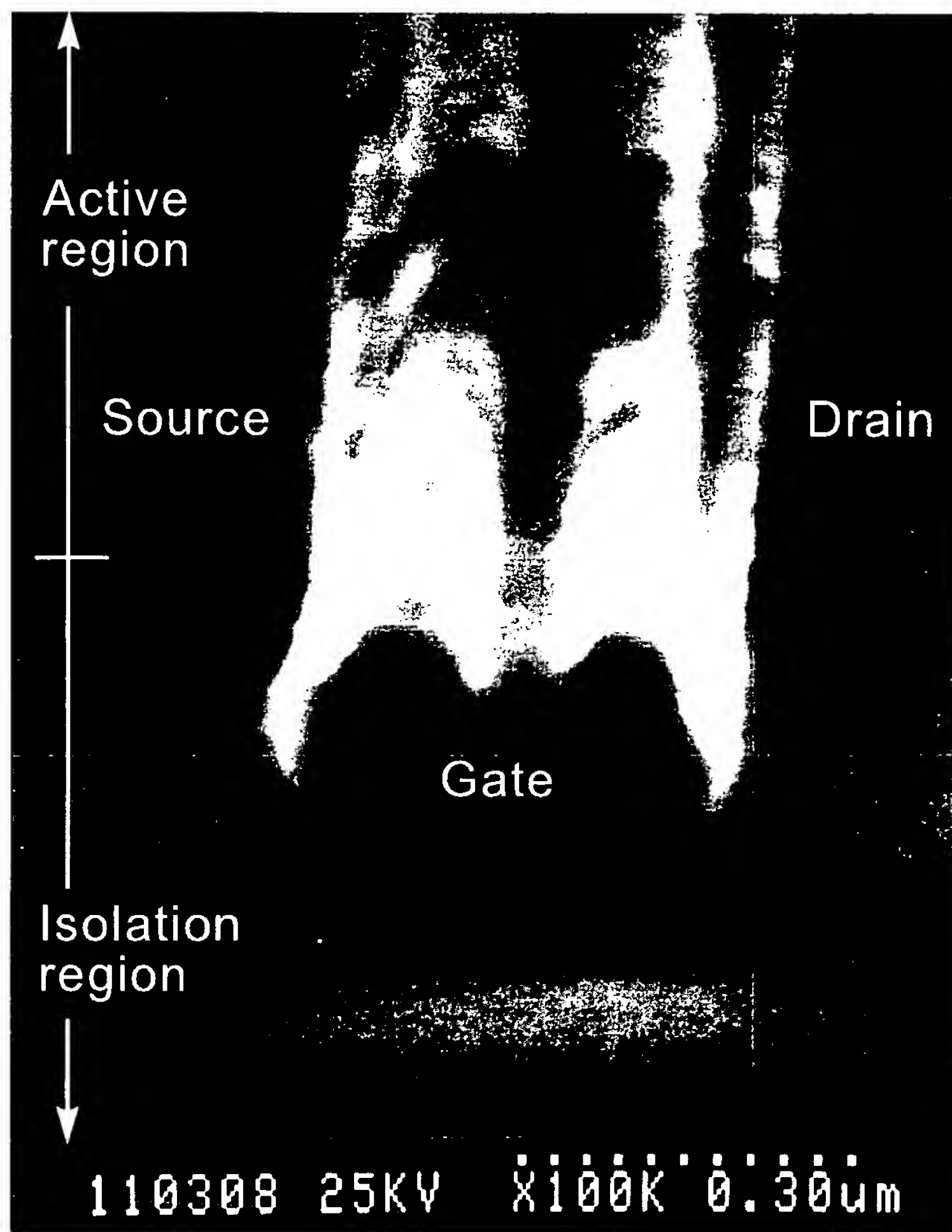


Fig. 13



p-type composite-channel MODFET,  $L_g = 0.09\mu\text{m}$ ,  $W = 25\mu\text{m}$

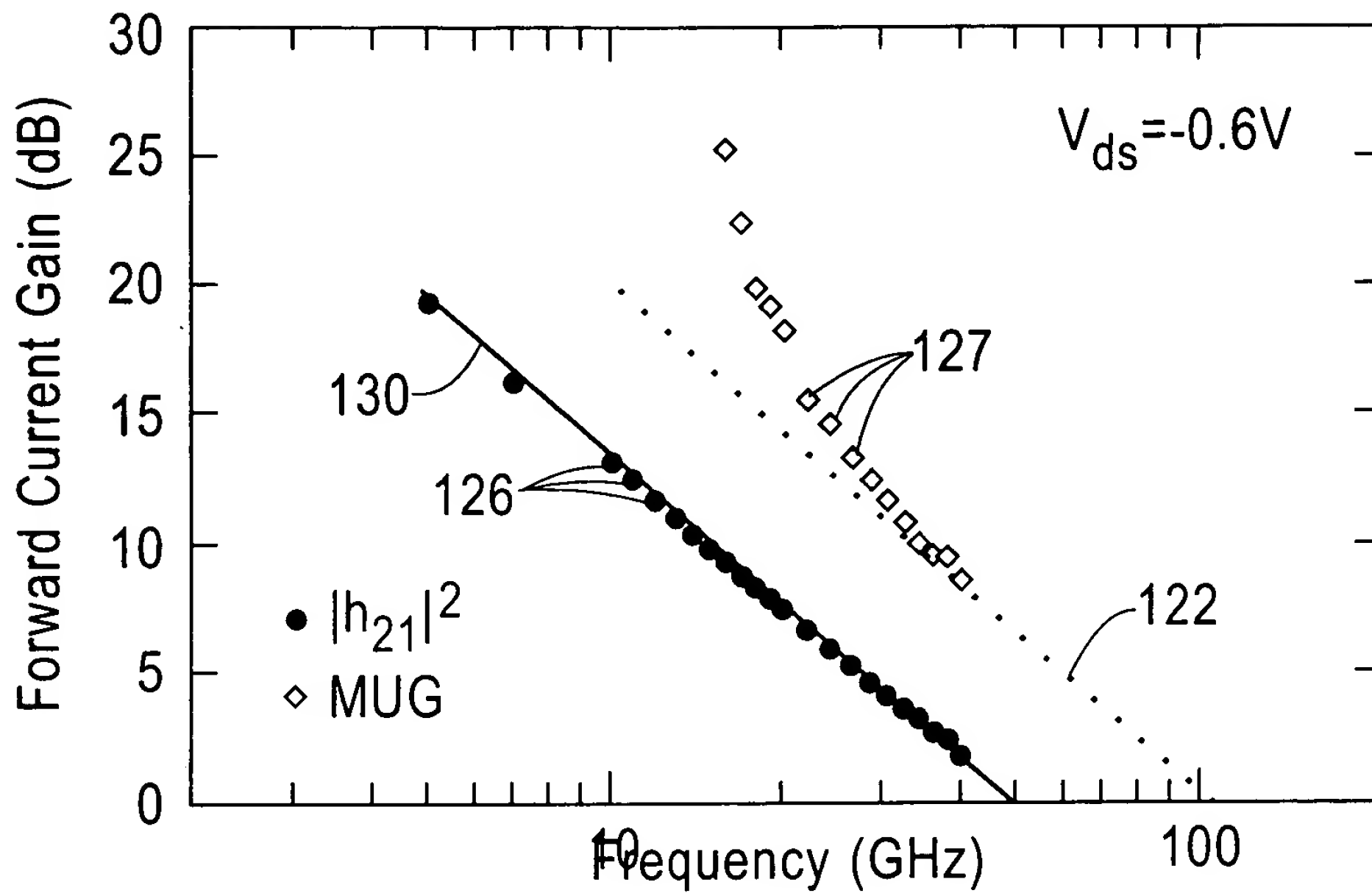


Fig. 14

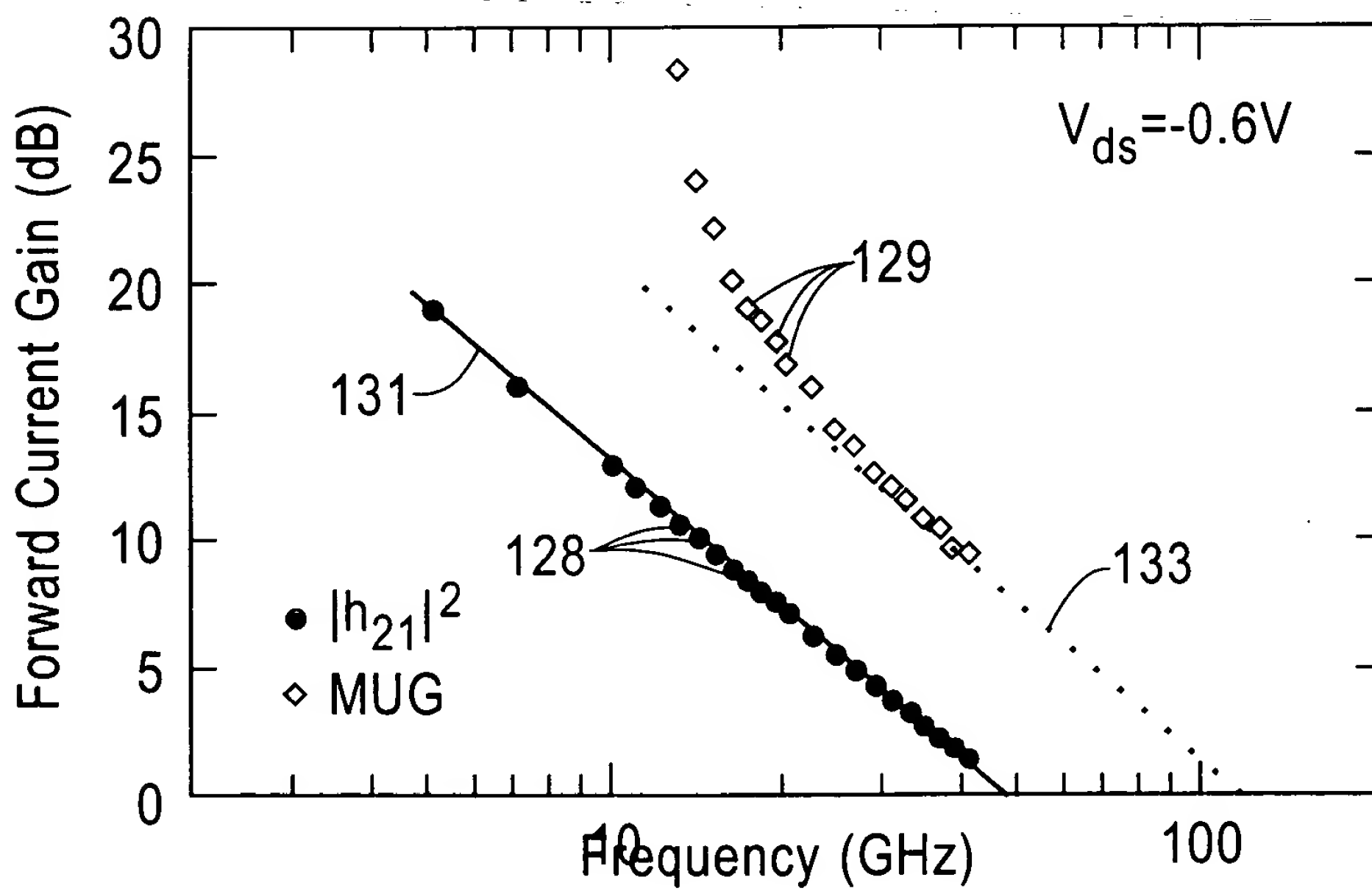


Fig. 15

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